

UltraStudio 3D

Uncompressed editing in HD, 2K and 3D on your laptop!

Introducing UltraStudio 3D, the world's most innovative video capture and playback device using Intel's new, lightning fast Thunderbolt™ technology! UltraStudio 3D is compact, portable and affordable, yet has high performance for SD, HD or 2K capture and playback that Hollywood film, broadcast television, and post production markets demand. UltraStudio 3D even supports two streams of full resolution video up to 1080p HD for new stereoscopic 3D workflows! Only \$995

Built on revolutionary Thunderbolt™ technology, UltraStudio 3D has a blazingly fast 10 Gb/s connection that's up to 20 times faster than USB 2.0. That's enough bandwidth for 2K RGB capture and playback! Thunderbolt also brings low latency and highly accurate time synchronization, so UltraStudio 3D is perfect for demanding stereoscopic 3D workflows. Now you can get all the workstation class performance you love, conveniently on your notebook!

UltraStudio 3D includes high quality HDMI 1.4a and dual HD-SDI connections for full resolution frame packed 3D capture and playback. Work in side-by-side, line-by-line, and top and bottom formats, even with previous generation 3D devices. Blackmagic Design's free Media Express software allows advanced dual stream 3D workflows by capturing left and right eye to separate QuickTime or DPX files for a complete 3D solution!

UltraStudio 3D. Simply Stunning Design

Machined from a solid piece of aluminium, UltraStudio 3D is an attractive, rugged device that's packed with features previously only available with a workstation. It's perfect for those on the go as an extremely portable companion to your camera, notebook and favorite NLE package. Imagine keying graphics in real time in live video environments or connecting high performance storage, a full HD plasma and UltraStudio 3D to your MacBook Pro to handle just about all of your post and feature film workflows!

Now you can handle any job that comes through your door, from TVC to 2K feature films, because UltraStudio 3D supports uncompressed YUV 4:2:2 and RGB 4:4:4 workflows up to full resolution 2K! Since all captured images are a pixel-for-pixel clone of the source, without any generational loss or damaging compression, you're working at the highest quality possible. Get the sharpest green screens, cleanest compositions, superior color correction and more! With mature drivers, award winning Media Express software, and sophisticated SDK included, UltraStudio 3D is an unparalleled solution.

UltraStudio 3D Specs

Connections

SDI Video Input	2 x 10 bit SD/HD switchable
SDI Video Output	2 x 10 bit SD/HD switchable
Analog Video Input	1 x Component YUV on 3 BNCs switchable to S-Video or Composite. Component supports HD and SD.

Connections

Analog Video Output	1 x Component YUV on 3 BNCs switchable to S-Video or Composite. Component supports HD and SD.
HDMI Video Input	1 x HDMI 1.4a type A connector
HDMI Video Output	1 x HDMI 1.4a type A connector
Analog Audio Output	2 Channels of professional balanced analog audio via XLR connectors.
Analog Audio Input	2 Channels of professional balanced analog audio via XLR connectors.
AES/EBU Audio Input	2 Channels unbalanced with sample rate converter.
AES/EBU Audio Output	2 Channels unbalanced with sample rate converter.
SDI Audio Input	16 channels embedded in SD and HD.
SDI Audio Output	16 channels embedded in SD and HD.
HDMI Audio Input	8 channels embedded in SD and HD.
HDMI Audio Output	8 channels embedded in SD and HD.
Computer Interface	Thunderbolt
Sync Input	Blackburst in SD, 720p50, 720p59.94, 1080i50 and 1080i59.94 formats or Tri-Sync in any HD format.
Device Control	Sony compatible RS422 deck control ports. Serial ports TxRx direction reversible under software control.

Standards

SD Format Support	625/25 PAL, 525/29.97 NTSC and 525/23.98 NTSC and 480p.
HD Format Support	720p50, 720p59.94, 720p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080i50, 1080i59.94, 1080i60, 1080p50, 1080p59.94, 1080p60.
2K Format Support	2048 x 1556PsF24 and 2048 x 1556PsF25, 2048 x 1556p23.98, 2048 x 1556p24 and 2048 x 1556p25
SDI Compliance	SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M and SMPTE 425M
SDI Metadata Support	VITC read for 3:2 pulldown removal. VANC capture and playback using up to 3 lines of video in file. HD RP188. Closed captioning.
Video Sampling	4:2:2 and 4:4:4
Audio Sampling	Television standard sample rate of 48kHz at 24 bit.
Color Precision	10-bit
Color Space	REC 601, REC 709
HDMI Color Precision	10 bit
HDMI Resolution	Pixel for pixel HD resolution input to connected device.
HDMI Configuration	HDMI automatically configures to connected display.
Multiple Rate support	SDI, HDMI and component analog video connections are switchable between standard definition and high definition. SDI switches between 270 Mb/s standard definition SDI, 1.5 Gb/s HD-SDI and 3 Gb/s HD and 2K SDI.
Copy Protection	For legal reasons HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.

Processing

Colorspace Conversion	Hardware based real time.
3D Processing	Dual stream and frame packed capture & playback.
HD Down Conversion	Software based down conversion during video playback.
HD Up Conversion	Real time standard definition to 1080HD and 720HD during video capture.
HD Cross Conversion	Real time 720HD to 1080HD during video capture.
Real Time Effects	Apple Final Cut Pro internal effects in DV, DVCPRO HD, ProRes and uncompressed on Intel Mac OS X . Adobe Premiere Pro Mercury Playback Engine effects in DV, MJPEG, DVCPRO HD, DSLR, AVCHD, XDCAM, XDCAM HD and uncompressed.

Extras

Software Included	Media Express, Disk Speed Test, Blackmagic System Preferences and Blackmagic driver on Mac OS X .
Firmware Upgrade	Firmware built into software driver. Loaded at system start or via updater software.
Installation	Requires Macintosh computer with Thunderbolt running Mac OS X 10.6. Please check the Support pages to see the full system requirements.
Operating System Compatibility	Mac OS X 10.6 Snow Leopard
Product Warranty	3 Year Limited Manufacturer's Warranty.